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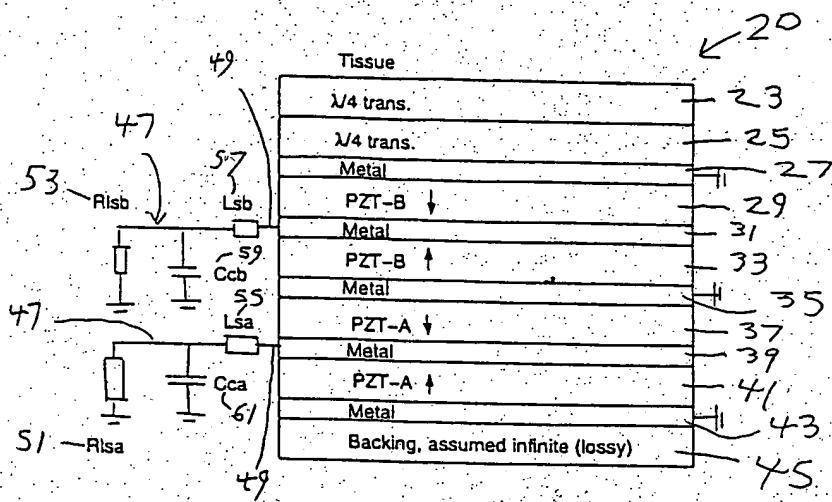


Fig. 1

Transducer	Parameter	4*(1-3) 100 $\Omega$
Backing:	Z(MRayl)	2
Metal towards backing:	Z (MRayl) c (m/s) l ( $\mu$ m)	30 3750 15
Elem. a:	L <sub>sa</sub> ( $\mu$ H) C <sub>ca</sub> (pF) R <sub>lsa</sub> ( $\Omega$ ) Z <sup>D</sup> (MRayl) c (m/s) h ( $10^9$ V/m) $\epsilon_r^s$ l ( $\mu$ m) Area (mm <sup>2</sup> )	6 100 100 14.06 3569 1.626 888 140 3.0 (2 stk.)
Metal between sub-elements:	Z (MRayl) c (m/s) l ( $\mu$ m)	20 3750 15 (3 stk.)
Elem. b:	L <sub>sb</sub> ( $\mu$ H) C <sub>cb</sub> (pF) R <sub>lsb</sub> ( $\Omega$ ) Z <sup>D</sup> (MRayl) c (m/s) h ( $10^9$ V/m) $\epsilon_r^s$ l ( $\mu$ m) Area (mm <sup>2</sup> )	16 100 100 14.06 3569 1.626 888 116 3.0 (2 stk.)
Metal towards front:	Z (MRayl) c (m/s) l ( $\mu$ m)	30 3750 15
Transf. 1:	Z(MRayl) 1/ $\lambda$ v/2.5MHz	8.04 0.25
Transf. 2:	Z(MRayl) 1/ $\lambda$ v/2.5MHz	2.63 0.25

Fig. 2

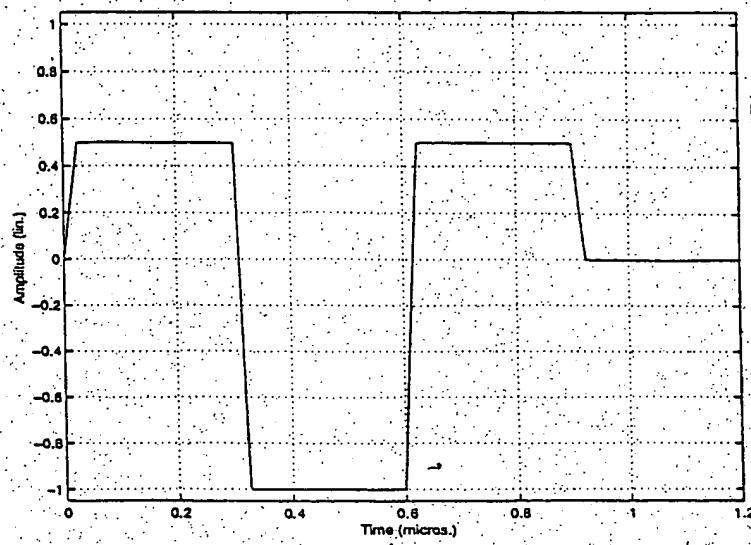


Fig. 3

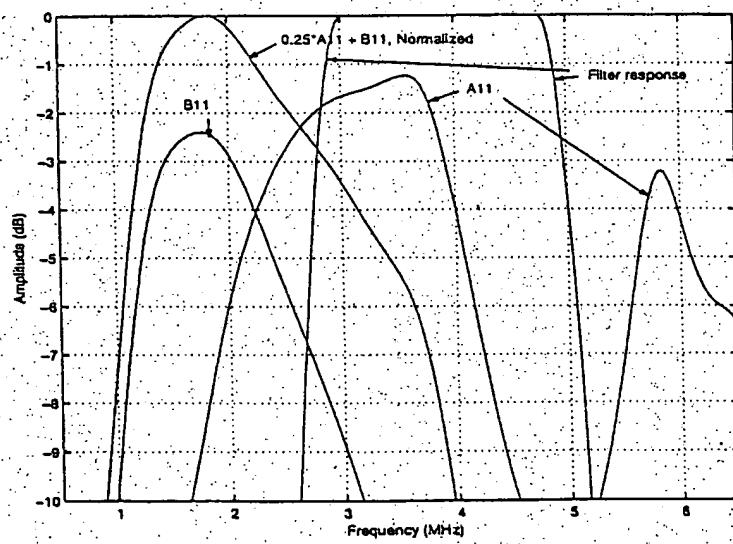


Fig. 4

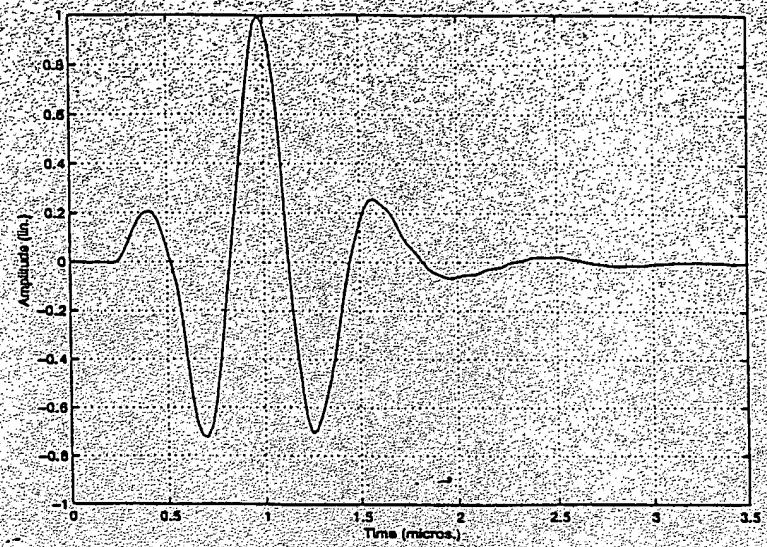


Fig. 5

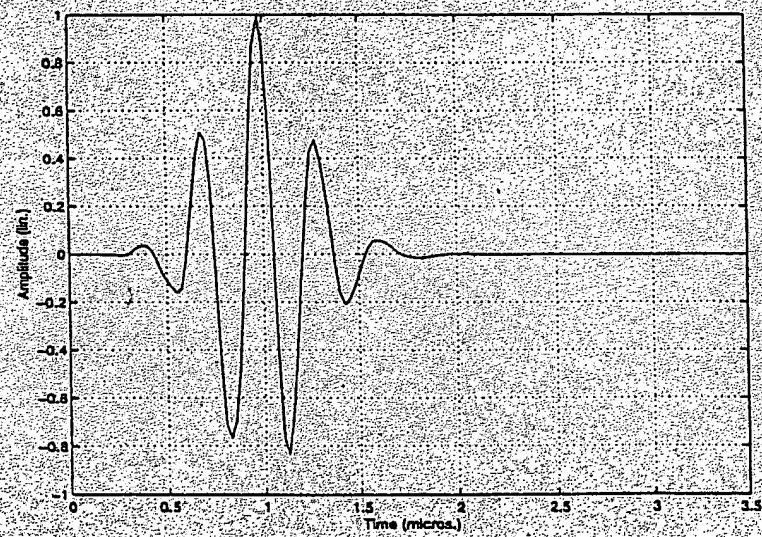


Fig. 6

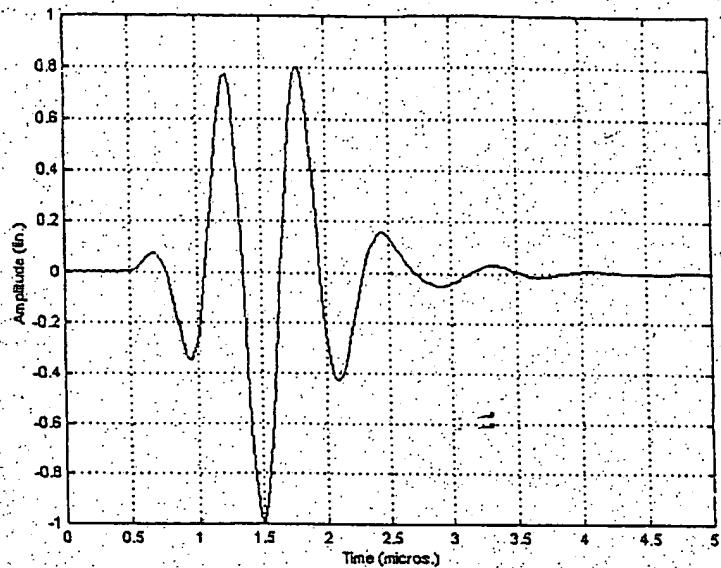


Fig. 7: Received first harmonic signal from the pressure in Fig. 5, when using the response B11 in reception.

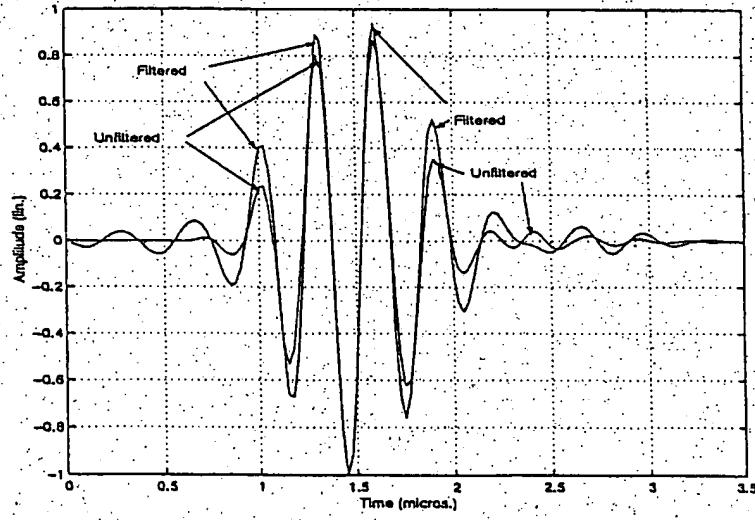


Fig. 8

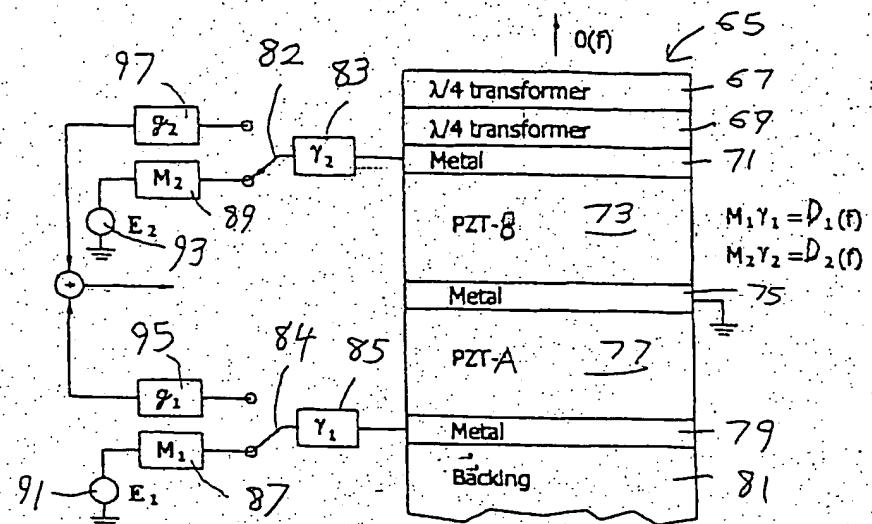


Fig. 9

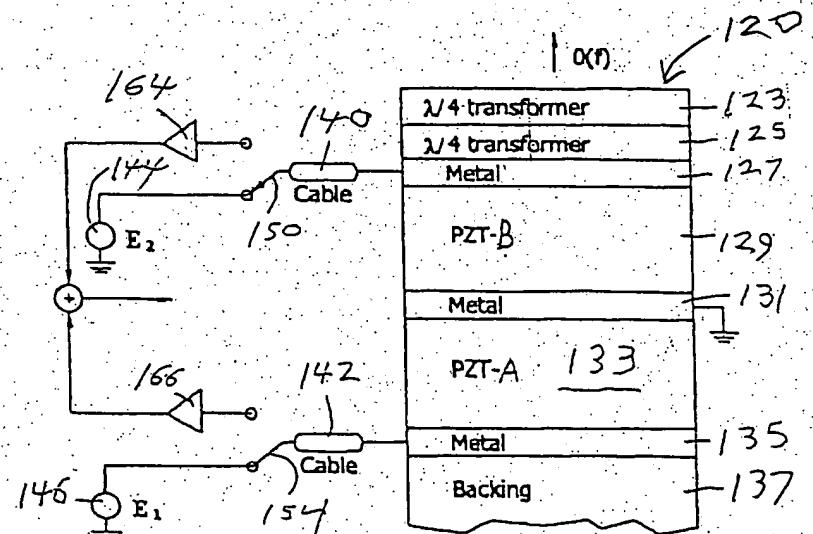


Fig. 10

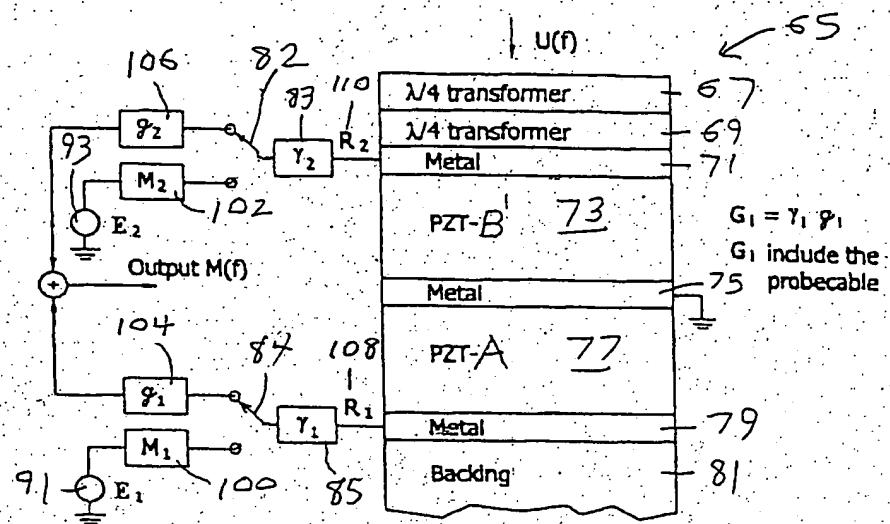


Fig. 11

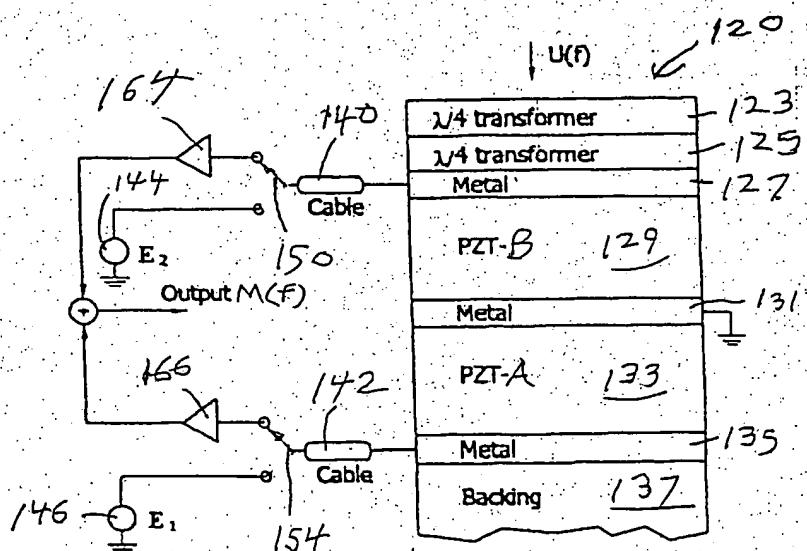
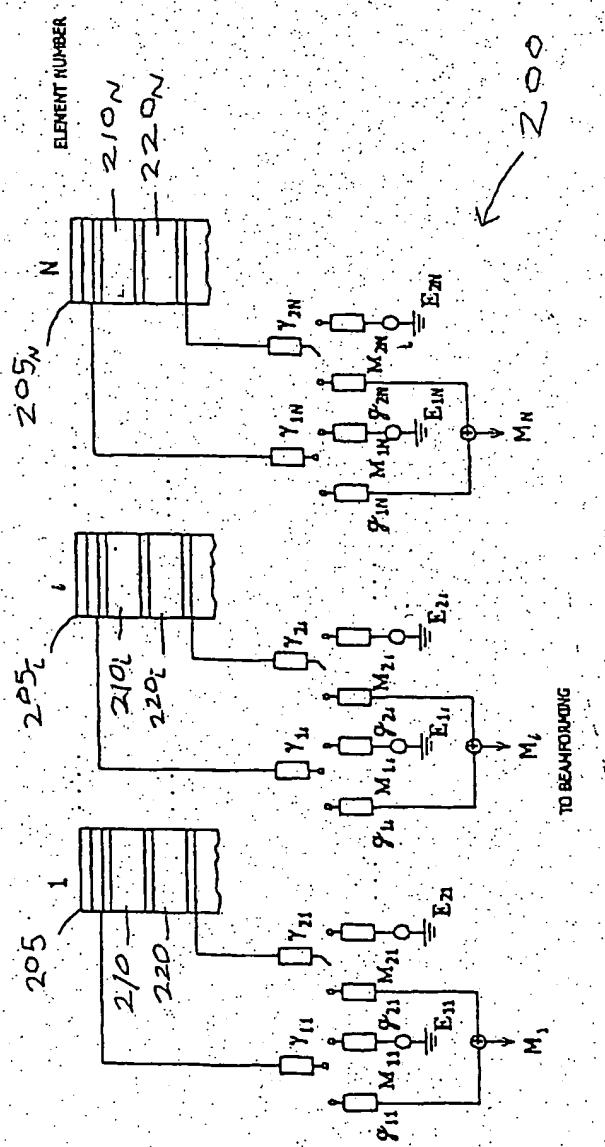


Fig. 12



ARRAY CONFIGURATION WITH ELEMENT VARIABLE FILTERING

Fig. 13